B.B.M.P

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: ***Estimate for Works Related to Damaged Caused due to Flood in Ward No. 10, (Doddabommasandra).***

Job Code:

Estimated Cost Rs. 40.00 Lakhs

BRUHATH BANGALORE MAHANAGARA PALIKE

Ward No. 10, Doddabommasandra

DETAILED ESTIMATE

NAME OF WORK : **Works Related to Damaged Caused due to Flood in Ward No. 10 (Doddabommasandra).**

Estimated Cost **40.00** **Lakhs**

Sl. No.	Description of Item	Measurments				Qty	Unit	Rate	Amount
		No.s	L	B	D				
1	Removing and Resetting of Footpath Slab (Approved Data rate enclosed).								
	Silting								
		2	2	60.00	0.75	180.00			
		3	2	98.00	0.90	529.20			
		2	2	110.00	0.90	396.00			
		5	2	47.00	0.90	423.00			
						1528.20			
	Missing Slabs 30%					458.46			
					Total qty.	**1069.74**	Sqm	**235.00**	**251389.00**
	Approved Data Rate	235.00							
2	**Earth work excavation by manual means for drains**,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost. **In all kinds of soils Depth upto 1.5 m (CSR 2021-22, Volume-I, Page No.5, Item No.1.4.1)**								
	Desilting								
		2	2	60.00	0.45	0.45	48.60		
		3	2	98.00	0.60	0.45	158.76		
		2	2	110.00	0.60	0.45	118.80		
		5	2	40.00	0.60	0.45	108.00		
	For New CC Drain								
	cross road	1	1	50.00	1.00	1.00	50.00		
	Culverts	1	10	6.00	1.50	1.00	90.00		
						Total qty.	**574.16**	Cum	**204.60**	**117473.00**
	Basic Rate PWD CSR 2021-22	186.00							
	Additional Area Specific Loading Charges as per Vol-1 Common SR 2021-22 i.e, 10%	18.60							
	Total Rate	**204.60**							
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:4:8(M5) Using 40 mm nominal size graded crushed coarse aggregates **(CSR 2021-22, Volume-I, Page No.15, Item No.2.1.2)**								
	For New CC Drain								
	cross road	1	1	50.00	1.00	0.15	7.50		
	Culverts	1	10	6.00	1.40	0.15	12.60		
					Total qty.		**20.10**	Cum	**5726.60**	**115105.00**
	Basic Rate PWD CSR 2021-22 & As per Issued Rate 07.07.2022	5206.00							
	Additional Area Specific Loading Charges as per Vol-1 Common SR 2021-22 i.e, 10%	520.60							
	Total Rate	**5726.60**							

Sl. No.	Description of Item	Measurments				Qty	Unit	Rate	Amount
		No.s	L	B	D				
4	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates **(CSR 2021-22, Volume-I, Page No.17, Item No.2.4.2)**								
	Raft concrete For CC Drain								
	cross road	1	1	50.00	0.90	0.15	6.75		
	CC Drain Sidewalls								
	cross road	1	2	50.00	0.15	0.60	9.00		
	Culverts: Raft	1	10	6.00	1.30	0.20	15.60		
	Culverts: Sidewall	1	20	6.00	0.30	0.60	21.60		
	Ramp for Culvert (Approaches)	2	20	6.00	0.90	0.125	27.00		
					Total qty.		**79.95**	Cum	**6893.04**	**551099.00**
	Basic Rate PWD CSR 2021-22 & As per Issued Rate 07.07.2022	5968.00							
	Add 5% for Centering and Shuttering	298.40							
	Sub Total	6266.40							
	Additional Area Specific Loading Charges as per Vol-1 Common SR 2021-22 i.e, 10%	626.64							
	Total Rate	**6893.04**							
5	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. **(CSR 2021-22, Volume-I, Page No.99, Item No.13.1)**								
	Qty of Item No.5 Raft & Sidewall Qty of CC Drain)		15.75	60		945.00			
	Qty of Item No.5 (Culvert Qty)		37.20	80		2976.00			
						3921.00	kgs		
					Total qty.	**3.92**	Ton	**101387.00**	**397437.00**
	Basic Rate PWD CSR 2021-22 & As per Issued Rate 07.07.2022	92170.00							
	Additional Area Specific Loading Charges as per Vol-1 Common SR 2021-22 i.e, 10%	9217.00							
	Total Rate	**101387.00**							
6	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge of the Work. **(Approved Data Rate)**								
	Precast Covering Slab for CC Drain								
	cross road	1	1	50.00	0.90	45.00			
	Missing Slabs 30% Vide Item No.1					458.46			
					Total qty.	**503.46**	Sqm	**2337.00**	**1176586.00**
	Approved Data Rate	2337.00							
7	Providing & fixing RCC Precast Cover slab of 230mm thick for drain in cement concrete M20 using graded granite jelly 200mm & down size with steel reinforcement including formwork, lift charges, curing & concrete finished surface both sides etc,. And as per drawing & the direction of Engineer-in-charge. **(Approved Data Rate)**								
	Culvert (deck)	1	10	6.00	1.20	72.00			
					Total qty.	**72.00**	Sqm	**5418.00**	**390096.00**
	Approved Data Rate	5418.00							
8	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. **(CSR 2021-22, Volume-III, Page No.3, Item No.1.1 C)**								

Sl. No.	Description of Item	Measurments				Qty	Unit	Rate	Amount
		No.s	L	B	D				
	Same as Qty Vide Item No.3					539.71			
					Total qty.	**539.71**	Cum	**81.40**	**43932.00**
	Basic Rate PWD CSR 2021-22		74.00						
	Additional Area Specific Loading Charges as per Vol-1 Common SR 2021-22 i.e, 10%		7.40						
	Total Rate		**81.40**						
9	Cost of Haulage Excluding Loading and Unloading, Case-1 : Surfaced Road A Taking output 10 t load and lead 10 km = 100 t.km **(CSR 2021-22, Volume-III, Page No.3, Item No.1.4 (i) A)**								
	Same as Qty Vide Item No.20					539.71	Cum		
	Density of Sand/Debris i.e 1.28 Tonne/Cum		539.71		1.28	690.82	Tonnes		
	Cost of Haulage Excluding Loading and Unloading on Surface Road to a distance of 9.80 Kms		690.82		9.80	6770.03	t.kms		
					Total qty.	**6770.03**	t.kms	**12.00**	**81240.00**
	Rate As per PWD CSR 2021-22		12.00						
10	Providing and Fixing Steel Work in built up tubular (round rectangular hollowtube etc) truseses etc, including cutting, hoisting, fixing in postion and applying priming coat of approved steel primer including welding and bolted with Special shaped washer set complete electric resistance ordiction butt weleded tubes including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of Engineer in Charge								
	Culvert								
	PLATE	Kg	10		71	710			
			Steel assumed 71 kg/per unit						
			10		148	1480			
			Steel assumed 148 kg/per unit						
					Total qty.	**2190.00**	Cum	**121.00**	**264990.00**
	Basic Rate PWD CSR 2021-22		110.00						
	Additional Area Specific Loading Charges as per Vol-1 Common SR 2021-22 i.e, 10%		11.00						
	Total Rate		**121.00**						
								Sub Total	**3389347.00**
								Add GST 18%	**610082.00**
								Miscelleneus & rounding off	**571.00**
								TOTAL	**4000000.00**

(Rupees Fourty Lakhs Only)

ದೃಢೀಕರಣ:–

1	ಸದರಿ ಅಂದಾಜು ಪಟ್ಟಿಯಲ್ಲಿ ಪ್ರಸ್ತಾಪಿಸಿರುವ ರಸ್ತೆಗಳ ಅಭಿವೃದ್ಧಿ ಈ ಹಿಂದೆ ಯಾವುದೇ ಅನುದಾನದಲ್ಲಿ ಪ್ರಸ್ತಾಪಿಸಿರುವುದಿಲ್ಲ ಹಾಗೂ ಪುನರಾವರ್ತನೆಯಾಗಿರುವುದಿಲ್ಲ ಎಂದು ದೃಢೀಕರಿಸಿದೆ.
2	ಸದರಿ ಅಂದಾಜು ಪಟ್ಟಿಯಲ್ಲಿ ಪ್ರಸ್ತಾಪಿಸಿರುವ ರಸ್ತೆಗಳು ಡಿ.ಎಲ್.ಪಿ ಅವಧಿಯಲ್ಲಿರುವ ರಸ್ತೆಗಳಲ್ಲಿ ಸೇರಿರುವುದಿಲ್ಲ.
3	ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ಪಿ.ಡಬ್ಲ್ಯೂ.ಡಿ ಸಿ.ಎಸ್.ಆರ್ 2021–22 ಸಾಲಿನ ದರಗಳು ಹಾಗೂ ಅನುಮೋದಿತ ಡೇಟಾ ದರಗಳನ್ವಯ ತಯಾರಿಸಲಾಗಿದೆ.
4	ಸದರಿ ಕಾಮಗಾರಿಯಲ್ಲಿ ಪ್ರಸ್ತಾಪಿಸಿರುವ ರಸ್ತೆಗಳ ಅಭಿವೃದ್ಧಿಯು ತುಂಬಾ ಅವಶ್ಯಕವಾಗಿರುತ್ತದೆ.
5	ಎಲ್ಲಾ ರಸ್ತೆಗಳು ಬಿ.ಬಿ.ಎಂ.ಇ ಸರಹದ್ದಿನಲ್ಲಿರುತ್ತವೆ

Assistant Engineer
Ward No. 10

Executive Engineer
Byatarayanapura Division

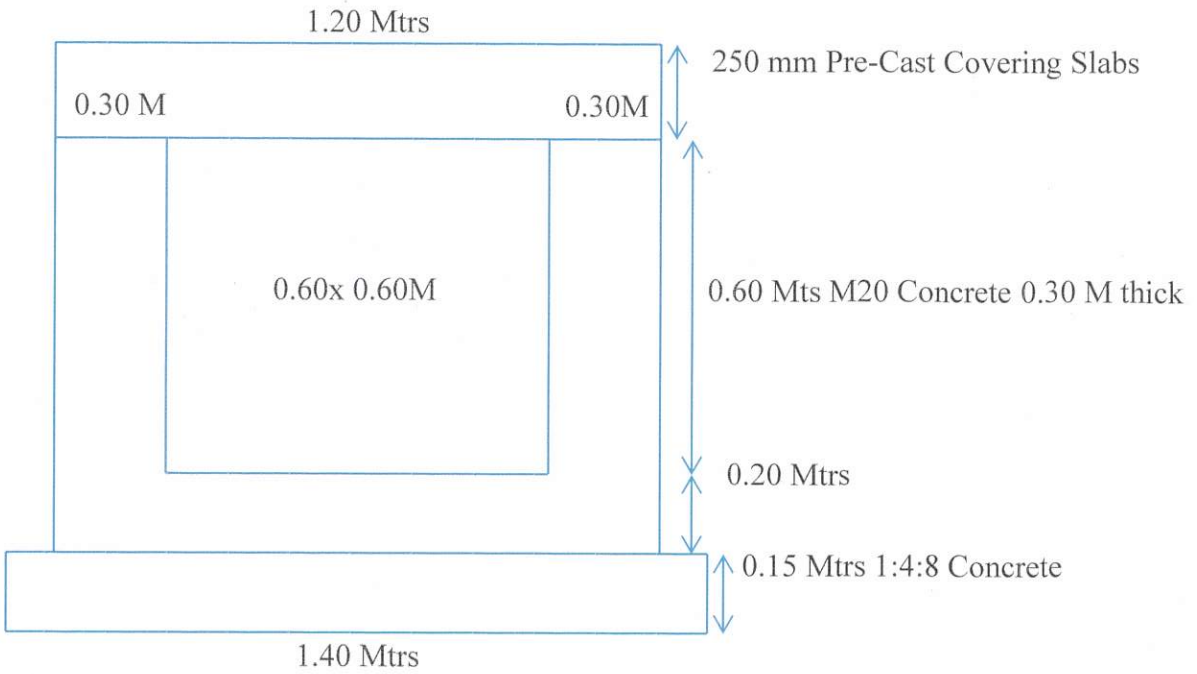
Assistant Executive Engineer
Vidyaranyapura Sub Division

Administrative Approval
Accorded For RSWorks only
Head of A/C
CER NO : 19 Dt: 20.08.22

Technical Sanction
Accorded For RSWorks only
Head of A/C
CER NO : 17 Dt: 20.08.22

AA CE (VNK)

Name of the Work: Works Related to Damaged Caused due to Flood in Ward No. 10 (Doddabommasandra).

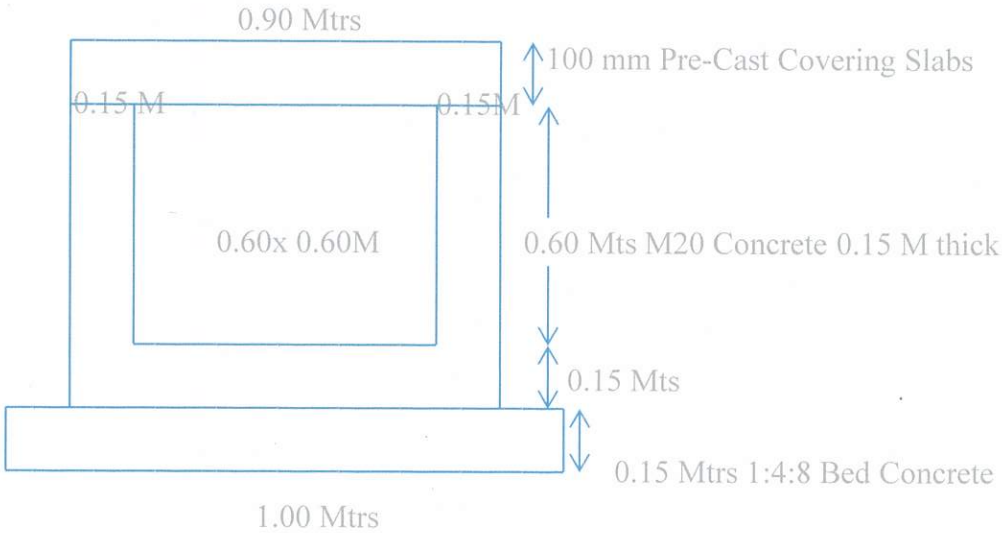


CROSS SECTION OF RCC CULVERT

Junior Engineer
Ward No. 10

Assistant Executive Engineer
Vidyaranypura Sub Division

Name of the Work: Works Related to Damaged Caused due to Flood in Ward No. 10 (Doddabommasandra).



CROSS SECTION OF RCC DRAIN

Junior Engineer
Ward No. 10

Assistant Executive Engineer
Vidyaranypura Sub Division

152 - BYATARAYANAPURA AC
WARD NAME : 10 - DODDA BOMMASANDRA